## **AMENDMENTS TO THE CLAIMS:**

This listing will replace all prior versions of the claims in the application.

## Listing of Claims:

1. (ORIGINAL) A head unit cleaning method for cleaning a head unit including: an ink jet head having a plurality of ink channels, the ink jet head ejecting ink while the head unit is in a printing posture; a buffer tank for storing ink to be supplied to the ink jet head, the buffer tank having a top wall formed with a first port and a second port; and a manifold disposed between and connected to the ink jet head and the buffer tank, the manifold distributing ink from the buffer tank to the plurality of ink channels in the ink jet head, the cleaning method comprising:

introducing cleaning fluid into the buffer tank through the first port to remove foreign matter from the head unit through the second port;

turning the head unit upside down with respect to the printing posture so that the second port is located in a lowermost position and the top wall slants down toward the second port; and

removing the cleaning fluid remaining in the head unit through the second port.

2. (ORIGINAL) The head unit cleaning method according to claim 1, wherein the step of introducing the cleaning fluid includes maintaining the head unit in at least one of the printing posture and upside down with respect to the printing posture while introducing the cleaning fluid.

- 3. (ORIGINAL) The head unit cleaning method according to claim 1, wherein the step of introducing the cleaning fluid includes applying a positive pressure to the cleaning fluid to introduce the cleaning fluid into the buffer tank through the first port.
- 4. (ORIGINAL) The head unit cleaning method according to claim 1, wherein the step of removing the cleaning fluid includes introducing air into the buffer tank through the first port at a pressure greater than atmospheric pressure.
- 5. (ORIGINAL) The head unit cleaning method according to claim 1, wherein while the head unit is in the printing posture, the ink jet head ejects ink that includes a fluid and a coloring agent, and the cleaning fluid has the same composition as the fluid of the ink without the coloring agent.
- 6. (ORIGINAL) The head unit cleaning method according to claim 1, wherein the first port is for supplying ink from an ink supply source into the buffer tank and the second port is for discharging air bubbles separated from ink in the buffer tank while the head unit is in the printing posture.
- 7. (PREVIOUSLY PRESENTED) The head unit cleaning method according to claim 1, wherein the buffer tank of the head unit further includes a bottom wall that is substantially flat, and side walls that rise up from outer edges of the bottom wall, and the top wall is slanting and in confrontation with the bottom wall, the cleaning fluid flowing down from the bottom wall, along the slanting top wall, to the second port in the cleaning fluid removing step.

8. (ORIGINAL) The head unit cleaning method according to claim 4, wherein the buffer tank further includes a bottom wall formed with a third port communicating with the manifold, and a filter attached to a projected inner surface of the bottom wall to cover the third port, and in the cleaning fluid removing step the filter hinders the air introduced into the buffer tank from passing therethrough.

9. (ORIGINAL) A method of introducing ink into an unused head unit including: a buffer tank for storing ink, the buffer tank having an ink outlet and an ink supply path, the ink supply path being for connecting to an ink supply source; and an ink jet head having a plurality of ejection nozzles through which ink supplied from the ink outlet is ejected onto a recording medium, the ink introducing method comprising:

maintaining the buffer tank filled with a preservation fluid before the head unit is used; introducing the preservation fluid from the buffer tank into the ink jet head before introducing ink into the head unit;

expelling the preservation fluid from the ink jet head; and

introducing ink from the ink supply source into the ink jet head through the buffer tank.

10. (CANCELLED)

## 11. (CANCELLED)

12. (ORIGINAL) An ink jet recording apparatus, comprising:

an ink jet head for ejecting ink droplets;

a buffer tank for storing ink and supplying ink to the ink jet head, the buffer tank including a bottom wall, a top wall, and a side wall, the bottom wall having an outer edge, the top wall being in confrontation with the bottom wall through a space for holding ink, the top wall having an outer edge, and the side wall being connected to the outer edges of the bottom wall and the top wall;

an outflow port formed in the top wall, the outflow port being for removing bubbles from the space; and

an ink inflow port formed in the top wall of the buffer tank, the ink inflow port having a cylindrical shape and projecting down towards the bottom wall, the ink inflow port having a bottom end nearest the bottom wall, the bottom end being formed with a notch that faces towards the outflow port.

13. (ORIGINAL) The ink jet recording apparatus according to claim 12, wherein the notch of the ink inflow port is submerged in the ink in the buffer tank.

14. (ORIGINAL) The ink jet apparatus according to claim 12, wherein the outflow port is located in a highest position of the top wall of the buffer tank while the ink jet head is in a printing posture for ejecting ink droplets.

15. (ORIGINAL) An ink jet recording apparatus comprising:

a head unit including:

a buffer tank for storing ink including an ink outlet and an ink supply path, the ink supply path being for connecting to an ink supply source, the buffer tank being filled with a preservation fluid before the head unit is used; and

an ink jet head including a plurality of ejection nozzles for ejecting ink that is supplied from the ink outlet onto a recording medium; and

a fluid introducing unit that introduces the preservation fluid from the buffer tank into the ink jet head and expels the preservation fluid from the ejection nozzles to make the head unit ready for use.

16. (ORIGINAL) The ink jet recording apparatus according to claim 15, wherein the preservation fluid includes a surface active agent.

17. (ORIGINAL) The ink jet recording apparatus according to claim 15, wherein the ink supply source supplies ink that includes a fluid and a coloring agent, the preservation fluid having the same composition as the fluid of the ink without the coloring agent.

18. (ORIGINAL) The ink jet recording apparatus according to claim 15, wherein the buffer tank further includes a filter located in the ink outlet, the filter having a mesh size small enough to prohibit the preservation fluid in the buffer tank from passing through the filter while the supply path is in a sealed condition.

19. (ORIGINAL) The ink jet recording apparatus according to claim 15, wherein the ink supply path of the buffer tank has an open end for connecting to the ink supply source, the ink

jet head further includes a cover that seals the plurality of nozzles and the buffer tank further includes a cover that seals the open end of the ink supply path.

20. (CANCELLED)